

Form PTO-1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. COLB-001/14US		SERIAL NO. 08/833,511	
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-left: 10px;"> <p>INFORMATION DISCLOSURE STATEMENT</p> <p>(Use several sheets if necessary)</p> </div> </div>					APPLICANT: Lester F. Ludwig, et al.			
					FILING DATE: April 7, 1997		GROUP 2743	
					U.S. PATENT DOCUMENTS			
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	P1							
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FOREIGN PATENT DOCUMENTS								
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							YES	NO
	F1							
	F2							
OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)								
NRK	D1	Michael Cohen and Nobuo Koizumi, " <u>Audio Windows: User Interfaces for Manipulating Virtual Acoustic Environments</u> ," pp.479-480.						
NR	D2	Michael Cohen and Nobuo Koizumi, " <u>Sonic Cubism</u> ."						
NRB	D3	Gary S. Kendall and William L. Martens, " <u>Simulating the Cue of Spatial Hearing in Natural Environments</u> ," Northwestern University, Evanston, IL 60201.						
NRB	D4	William L. Martens, " <u>Principal Components Analysis and Resynthesis of Spectral Cues to Perceived Direction</u> ," <i>Proceedings of the 1987 Int'l Computer Music Conference</i> , Northwestern University, Evanston, IL 60201						
NRB	D5	Michael Cohen and Lester F. Ludwig, " <u>Multidimensional audio window management</u> ," <i>Int'l. Journal of Man-Machine Studies</i> (1991) 34, pp. 319-336.						
NRB	D6	Michael Cohen and Nobuo Koizumi, " <u>Exocentric Control of Audio Imaging in Binaural Telecommunication</u> ," <i>IEICE Trans. Fundamentals</i> , (February 1992), Vol. E75-A, No. 2.						
NRB	D7	Michael Cohen, " <u>Multidimensional Audio windows: Conferences, Concerts, and Cocktails</u> ," <i>Human Factors Society Meeting</i> , SF, CA (June 12, 1991), pp. 1-15.						
	D8	Michael Cohen and Nobuo Koizumi, " <u>Audio windows for Binaural Telecommunication</u> ," <i>EIC</i> , Tokyo (10/91).						
NRB	D9	Michael Cohen, Nobuo Koizumi and Shigeaki Aoki, " <u>Design and Control of Shared Conferencing Environments for Audio Telecommunication</u> ," <i>Proceedings of the Second Int'l Symposium on Measurement and Control in Robotics (ISMCR '92)</i> , Tsukuba Science City, Japan, (November 15-19, 1992), pp. 406-412.						
EXAMINER <i>Medur. Ramakrishna</i>					DATE CONSIDERED <i>11-21-98</i>			

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